

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 03/01921

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 E21B7/28

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 E21B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 01/75261 A (LEEUWEN JAN VAN ;DOORN GERRIT VAN (NL); LEEUWEN ANTON DIRK VAN (NL) 11 October 2001 (2001-10-11)	1-15
Y	page 4, line 9 -page 5, line 30; figures 1,2 page 5, line 19 - line 30 ---	16-21
X	US 5 687 807 A (WOODS JAMES AKERS ET AL) 18 November 1997 (1997-11-18) column 2, line 27 -column 3, line 3; figures 1,2 ---	1-13
X	US 6 082 471 A (OSADCHUK MARK) 4 July 2000 (2000-07-04) column 10, line 1 -column 11, line 64; figures 4,5 --- -/--	1-13

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

1 September 2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 628 585 A (REBER CLEVE C ET AL) 13 May 1997 (1997-05-13) column 3, line 21 - line 64; figure 1 -----	16-21
A	US 3 894 402 A (CHERRINGTON MARTIN D) 15 July 1975 (1975-07-15) abstract -----	1,9,12

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/CA 03/01921

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 0175261	A	11-10-2001	NL 1014813 C2 AU 4487001 A EP 1268971 A1 WO 0175261 A1	02-10-2001 15-10-2001 02-01-2003 11-10-2001
US 5687807	A	18-11-1997	NONE	
US 6082471	A	04-07-2000	US 5979573 A US 5979574 A	09-11-1999 09-11-1999
US 5628585	A	13-05-1997	AU 712736 B2 AU 5578696 A CA 2219642 A1 CN 1269003 A DE 69617038 D1 EP 0870151 A1 JP 2001501709 T WO 9634225 A1	11-11-1999 18-11-1996 31-10-1996 04-10-2000 20-12-2001 14-10-1998 06-02-2001 31-10-1996
US 3894402	A	15-07-1975	AU 8282875 A BE 831519 A1 BR 7504618 A CA 1047481 A1 CH 604060 A5 DE 2531582 A1 EG 11759 A ES 439516 A1 FR 2279009 A1 GB 1501919 A JP 1336349 C JP 51036711 A JP 60059398 B NL 7508627 A ,C YU 183175 A1	13-01-1977 17-11-1975 06-07-1976 30-01-1979 31-08-1978 29-01-1976 31-12-1977 01-06-1977 13-02-1976 22-02-1978 11-09-1986 27-03-1976 25-12-1985 21-01-1976 28-02-1982